

USSR/Chemistry - Antibiotics Jan 51

"The Antibiotic Lenzitin," M. A. Litvinov, Ye. N. Moiseyeva, Lab Physiol Lower Plants, Dept Sporiferous Plants, Bot Inst imeni V. L. Komarov, Acad Sci USSR

"Priroda" Vol XL, No 1, pp 60-62

Found cultures of Lenzites sepiaria (Wulf.) Fr. have bacteriostatic and bactericidal effect on majority of bacteria, both gram-pos and neg. Isolated cryst lenzitin (I) from this fungus and found this antibiotic effective, but highly irritating to

174T15

LC

USSR/Chemistry - Antibiotics (Contd) Jan 51

mucous membranes. States further work will be done with aim of lowering toxicity of I and increasing its antibacterial effect. I is not identical with antibiotic isolated by Burton from L. termophilis (cf. "Nature" Vol CLXVI, 570, 1950).

174T15

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LITVINOV, M. A.

GLUKHOV, K.T., professor, 1879-1953; LITVINOV, M.A., redaktor; RULEVA,
M.S., tekhnicheskii redaktor

[Problems in the pathology of contagion; collection of articles
dedicated to the 35th anniversary of the Department of Contagious
Diseases] Voprosy infektsionnoi patologii; sbornik rabot posvia-
shchennykh 35-letiiu kafedry infektsionnykh boleznei. [Leningrad]
Gos. izd-vo med. lit-ry, 1954. 173 p. (MLRA 7:9)
(Communicable diseases)

LITVINOV, M.A.

Processes of the formation and settlement of microscopic soil
fungi on takyrs. Trudy Bot. inst. Ser. 2 no.9:401-410 '54. (MLBA 7:11)
(Turkmenistan--Fungi)

LITVINOV, M.A.; NYUKSHA, Yu.P.

"Microbiology of cellulose." A.A.Imshenetskii. Reviewed by M.A.
Litvinov, I.U.P.Niuksha. Zhur. ob biol. 15 no.5:397-400 S.O '54.
(IMSHENETSKII, A.A.) (MLRA 7:12)
(CELLULOSE)

LITVINOV, M. A.

USSR/ Biology - Bacteriology

Card 1/1 : Pub. 86 - 34/36

Authors : Litvinov, M. A.

Title : Cellulose and bacteria

Periodical : Priroda 43/8, 124-126, Aug. 1954

Abstract : Review of book entitled The Microbiology of Cellulose by A. A. Imshentskiy, published by the Publishing Office of the Acad. of Sci. of the USSR, 1953, 440 pages. The book is rated as useful to students, scientific workers in research institutes and to specialists in factory laboratories who work in the cellulose industry.

Institution : ...

Submitted : ...

7
Sodium is a soft, silvery metal. It is highly reactive and is used in the production of sodium compounds. It is obtained from the electrolysis of molten sodium chloride. It is a member of the alkali metal group in the periodic table.

1/2

LITVINOV, M. A.

USSR/ Agriculture - Fungicide

Card 1/1 Pub. 124 - 9/45

Authors : Litvinov, M. A., Cand. of Biol. Sc., and Averbukh, S. Ya. Engineer-Chemist

Title : New fungicide mixture for combatting mold

Periodical : Vest. AN SSSR 2, 51-52, Feb 1955

Abstract : The development of a new fungicide mixture (salicylic acid 15%, turpentine 35% and 50% paraffin) which was found highly effective in combatting various fungi is announced by the V. L. Komarov Botanical Institute of the Academy of Sciences USSR.

Institution :

Submitted :

IMSHENETSKIY, A.; KASHKIN, P.; KONOKOTINA, A.; KRASIL'NIKOV, N.; ERISS, A.:
KUDRYAVTSE, V.; LITVINOV, M.; MEYSEL', M.; RAUTENSHTEYN, Ya.

Aleksandra Alekseevna Bachinskaia; obituary. Mikrobiologiya 24
no.5:650-651 S-O '55. (MLRA 9:1)
(BACHINSKAIA, ALEKSANDRA ALEKSEEVNA, 1878-1955)

LITVINOV, M.A.

USSR/Soil Science - Soil Biology.

J.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15294

Author : M.A. Litvinov

Inst : -

Title : Biological Evaluation of the Microscopic Soil Fungi on
the Takys.
(Biotseny pochvennykh mikroskopicheskikh gribov na
takyrakh).

Orig Pub : V sb.: Takyry Zap. Turkmeni i ikh s.-kh. osvoyeniya.
M., AN SSSR, 1956, 55-74

Abstract : The microscopic soil fungi together with the algae are
an important component of the takyr biocoenoses. The
composition of the takyr fungus microflora is specified.
Characteristic for the takys of the sub-mountainous
plain of Kopet-Dag are the hyphal fungi of the genera
Stemphylium, Macrosporium, Alternaria, and Cladosporium
with darkly colored conidiospores, and among the fungi

Card 1/3

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USSR/Soil Science - Soil Biology.

J,

- Abs Jour : Ref Zhur - Biol., No 4, 1958, 15294

The upper part is characterized by the appearance of fungi which develop in the mycorrhizic vicinity of higher plants. One notes the absence of antimicrobial properties in the microscopic soil fungi, and the sharply expressed antagonistic relation of several fungi of the genus *Stemphylium* toward the blue-green algae and higher plants.

Card 3/3

28

LITVINOV, M.A.; AVERBUKH, S.Ya.; BARKOVSKAYA, N.N.

Experimental research on effective fungicidal mixtures of chemicals
suitable for the impregnation of industrial cork packings. Trudy
Bot.inst.Ser.2 no.10:175-178 '56. (MLRA 10:2)
(Fungicides) (Packing (Mechanical engineering))

L. F. Litvinov, M. A.

USSR / Microbiology. Antibiosis and Symbiosis. Antibiotics

F-2

Abs Jour : Ref Zhur - Bicl., No 1, 1958, No 635

Author : Savich, V.P., Kuprevich, V.F., Litvinov, M.A., Moiseeva, E.N.
Rassadina, K.A.

Inst : Not Given

Title : On a New Antibiotic From Lichens, the Sodium Salt of Usnic
Acid

Orig Pub : Tr. Botan. in-ta AN SSSR, ser. 2, 1956, No 11, 5-37

Abstract : In the study of antibiotic activity of lichens in the USSR, 11 species were found which contain usnic acid(I) in quantities large enough for industrial use. Data are given as to prevalence and content of I in specimens of Cladonia, Usnea, Cetraria, Alectoria, Parmelia, Evernia families. Specimens of 5 species yield a levorotary form of I, while the other 6 yield a dextrorotary isomer. The formation of I by some species was established for the first time. The method of collecting the raw material is stated. The authors' modified, more precise method of obtaining I is described, based on extracting the lichen thallus with benzene. The sodium salt

Card : 1/2

LITVINOV, M.A.; RASSADINA, K.A.

Experimental study of antibiotic properties of lichens occurring
in the U.S.S.R. Bot. zhur. 43 no.4:557-560 Ap '58. (MIRA 11:6)

1. Botanicheskiy institut im. V.I. Komarova Akademii nauk SSSR,
Leningrad.

(Lichens) (Antibiotics)

LITVINOV, M.A.; SHCJERBINA, T.S.

Significance of microscopic parasitic fungi for different
phytocoenoses in the arid steppes of Kazakhstan. Bot. zhur.
43 no.11:1593-1595 N '58. (MIRA 11:11)

1. Botanicheskiy institut im. V.I. Komarova AN SSSR, Leningrad.
(Kazakhstan--Fungi, Phytopathogenic) (Plant communities)

LITVINOV, M.A.

KRISS, Anatoliy Yevseyevich; IMSHENETSKIY, A.A., otv.red.; LITVINOV, M.A.,
red.izd-va; MOSKVICHEVA, N.I., tekhn.red.

[Marine microbiology (deep-sea microbiology)] Morskaya mikro-
biologiya (glubokovodnaya). Moskva, Izd-vo Akad.nauk SSSR, 1959.
453 p. (MIRA 12:3)

1. Chlen-korrespondent Akademii nauk SSSR (for Imshenetskiy).
(Marine biology)

~~LITVINOV, M.A.~~

Systematics of the genus *Olpidium* (Braun) Rabenhorst. Trudy Bot.
inst. Ser. 2 no.12:188-212 '59. (MIRA 12:12)
(Phycomycetes)

KIR'YALOV, N.P.; LITVINOV, M.A.; MOKHNACH, V.O.; NAUGOL'NAYA, T.N.

Galbanic acid and its derivatives as new antibiotics of plant
origin. Bot. zhur. 44 no.1:101-104 Ja '59. (MIRA 12:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Umbelliferone) (Antibiotics)

KONOVALOV, I.N.; LITVINOV, M.A.; ZAKMAN, L.M.

Variations in the nature and physiological characteristics of the tea fungus (*Maduremyces gisevii* Lindau) due to the conditions of cultivation. Bot. zhur. 44 no.3:346-349 Mr '59.

(MIRA 12:7)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad.
(Antibiotics) (Yeast) (Acetobacter)

VAKIN, A.T.; VASIL'YEVA, L.N.; GOLOVIN, P.N.; KOMARNITSKIY, N.A.; LITVINOV,
M.A.; SOSIN, P.Ye.; STRAKHOV, T.D.; TETEREVNIKOVA-BABAYAN, D.N.;
CHEREMISIYNOV, N.A.; SHCHERBINA, T.S.

"Bracket fungi of the European part of the U.S.S.R. and the Caucasus"
by A.S. Bondartsev. Reviewed by A.T. Vakin and others. Bot. zhur.
44 no.3:412-414 Mr '59. (MIRA 12:7)
(Wood-decaying fungi) (Bondartsev, A.S.)

VASIL'YEVA, L.N.; SHCHERBINA, T.S.; LITVINOV, M.A.; SOSIN, P.Ye.

"An outline of geographical distribution of mushrooms in the U.S.S.R." by B.P.Vasil'kov. Reviewed by L.N.Vasil'eva and others. Bot.zhur. 44 no.9:1359-1363 S '59. (MIRA 13:2)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR, Leningrad.
(Fungi) (Vasil'kov, B.P.)

MAKHNACH, V.O.; LITVINOV, M.A.; BORISOV, L.B.; MATYKO, N.A.; SMIRNOVA-IKONNIKOVA,
M.I.

Antibacterial properties of starch iodide and its components.
Mikrobiologiya 29 no.3:451-454 My-Je '60. (MIRA 13:7)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR, Leningrad.
(STARCH) (IODINE ORGANIC COMPOUNDS) (ANTISEPTICS)

LITVINOV, M.A.; GOLLAND, M.I.; SHCHERBINA, T.S.

Use of fluorescence analysis in the study of lichens. Izv. AN
SSSR, Ser. Biol. no.3:459-464 My-Je '60. (MIRA 13:7)

1. Botanicheskiy institut im. V.L.Komarova, Akademii nauk SSSR i
Opticheskiy institut im. S.I. Vavilova.
(LICHENS) (FLUORESCENCE)

MOKHNACH, V.O.; BORISOV, L.B.; LITVINOV, M.A.; MATYKO, N.A.

Antibacterial properties of iodine-polyvinyl alcohol, Mikrobiologiya
29 no. 4:600-602 J1-Ag '60. (MIRA 13:10)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR i
Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut.
(ANTISEPTICS) (VINYL ALCOHOL)
(IODINE ORGANIC COMPOUNDS)

LITVINOV, M.A.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000930220006-9"

Studying soil micromycetes of central Kazakhstan. Bot. mat.
Otd. spor. rast. 14:232-241 Ja'61. (MIRA 17:2)

LITVINOV, M.A.

Advantages of using liquid ammonia in mechanized fertilizing of
fields. Sbor. rab. GOSNITI no.16:20-27 ['61]. (MIRA 16:12)

MOKHNACH, V.O.; BORISOV, L.B.; LITVINOV, M.A.; MAT'KO, N.A.

Antimicrobial properties of high-polymer iodine-containing
compounds. Trudy LSGMI 66:162-170 '62. (MIRA 17:4)

1. Kafedra mikrobiologii Leningradskogo sanitarno-gigiyenicheskogo
meditsinskogo instituta (zav. kafedroy - prof. M.N.Fisher).

LITVINOV, M.A., kand. tekhn. nauk; YANISHEVSKIY, F.V., kand. sel'-
khoz. nauk; TIKHONCHUK, Yu.N., kand. ekon. nauk; CHERNIKOV,
B.P., inzh.; BOGDANOV, V.M., inzh.; CHICHEVA, L.I., red.

[Mechanization of the placement of mineral fertilizers] Me-
khanizatsiya vneseniya mineral'nykh udobrenii. Moskva,
Kolos, 1965. 173 p. (MIRA 18:5)

SAVICH, V.P., otv. red.; ABRAMOV, I.I., red.; VASIL'KOV, B.P.,
red.; GOLLERBAKH, M.M., red.; LITVINOV, M.A., red.

[New materials on the taxonomy of lower plants. 1965]
Novosti sistematiki nizshikh rastenii 1965. Moskva,
Nauka, 1965. 299 p. (MIRA 18:8)

1. Akademiya nauk SSSR. Botanicheskiy institut.

8(2)

SOV/112-59-2-2295

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2, p 4 (USSR)

AUTHOR: Litvinov, M. L.

TITLE: Electric Protection in Saline-Soil Areas

(Ob elektrozashchite v rayonakh zasolennykh vodoyemov)

ABSTRACT: Bibliographic entry.

(Translator's note: Presumably grounding conductors and electrodes are meant.)

Card 1/1

LITVINOV, M. M. and GORSHEYNA, M. S.

„Operatsionnye Metodi v Prikladnoi Matematike," (Operational Methods in Applied Mathematics), State Publishing House for Foreign Lit., Moscow 1948.

Litvinov, M. M.

USSR/Fluid Mechanics. Heat Transfer

Abs Jour: Ref Zhur-Mekhanika, No 6, 1957, 6849

Author : Litvinov, M. M.

Inst :

Title : The determination of stationary temperature fields in cooled turbine blades and discs, by the electro-analog method.

Orig Pub: Izv. AN SSSR, Otd. tekhn. n., 1956, No 5, 12-22

Abstract: An analysis is made of the conditions of analogy between the temperature field in a solid and the electric potential field in an electrically conducting medium. This is the so-called electro-thermal analogy, based on the identity between the dimensionless differential equations describing both of these processes. A description of the electrolytic model method used in the study of thermal processes, and of the procedure of using the models for the solution of two-dimensional axially symmetric problems in stationary heat transfer. Examples

Card 1/2

LITVINOV, M.M.

Conference of readers of "Shakhtnoe stroitel'stvo" in Krivoy Rog.
Shakht. stroit. 4 no.12:29 D '60. (MIRA 13:12)

1. Nachal'nik Byuro tekhnicheskoy informatsii tresta Krivbasshakh-
toprokhodka.

(Mining engineering--Periodicals)

S/258/63/003/001/017/022
E191/E135

AUTHOR: Litvinov M.M. (Moscow)

TITLE: The solution of some problems of steady-state heat conduction using electrical models and the form factors concept

PERIODICAL: Inzhenernyy zhurnal, v.3, no.1, 1963, 149-154

TEXT: The solution of the following problems of steady-state heat conduction with the help of electrical models is discussed: 1) the determination of temperature fields from a given heat flow; 2) the determination of the heat flow from a given temperature field; 3) the determination of local heat transfer coefficients from a given temperature field. Electrical simulation for the solution of the problems associated with normal derivatives at the boundaries of the body can be helped by the form factor concept suggested by I. Langmuir in 1913. In the present paper, a definition is given for the form factor applicable to a variable temperature distribution over the boundaries of the body and a variable thermal conductivity inside the body analogous to the Langmuir definition but having the thermal conductivity under the

Card 1/3

The solution of some problems of ... S/258/63/003/001/017/022
E191/E135

integral sign. Applications of the new definitions to conditions of axial symmetry and to boundary conditions of the third type are discussed. The form factor determination of plane bodies with two isothermal boundary curves can be accomplished simply with the help of electrical models made of conducting materials such as electrolytic tanks, electrically conducting papers and others. Two electrodes represent the two isothermal lines. In these models either the current and the potential difference are directly measured or the electrical resistance of the model is compared with a standard model (for example, rectangular) having a known form factor. In one method, the unknown model and the standard model are connected in series. The generalized form factor in the plane problem with a non-uniform temperature distribution along the boundary is discussed. The distribution is approximated by a number of electrodes with different voltages. The technique of solving each of the three types of problem enumerated earlier using electrical models and the form factor concept is discussed. In the first problem, the complete field examined is split up into simple fields. The form factor is determined for each simple

Card 2/3

The solution of some problems of ... S/258/63/003/001/017/022
E191/E135

field. The temperature of the boundaries is found and leads to the resulting field. The second problem is reduced to the determination of the field of form factors of the given region. The same basically applies to the third problem. There are 4 figures.

SUBMITTED: September 5, 1962

Card 3/3

LITVINOV, M.M., inzh.

Mechanized vertical shaft sinking. Met. 1 gornorud. prom.
no.1:73-75 Ja-F '62. (MIRA 16:6)

(Shaft sinking)

L 61509-65 EWT(1)/EPT(c)/EPF(n)-2/EWG(m)/EPR Pr-L/Pr-L/Pr-L W:

ACCESSION NR: AP5017L23

UR/0138/65/001 (06/0021/0025/

AUTHORS: Kirillov, V. I. (Moscow); Litvinov, M. M. (Moscow)

TITLE: Electrical model of unsteady state temperature field including radiation heat transfer

SOURCE: Prikladnaya mekhanika, v. 1, no. 6, 1965, 21-25

TOPIC TAGS: heat transfer, radiation heat transfer, nonlinear equation, analog computer/ ETNA 4 integrator, Strela digital computer

ABSTRACT: An analog technique was developed on the ETNA-4 electron-integrator to solve the nonlinear heat transfer equation, including thermal radiation terms. The governing equation is given by

$$c\gamma \frac{\partial T}{\partial \tau} = \frac{1}{x^2} \cdot \frac{\partial}{\partial x} \left(x^2 \lambda \frac{\partial T}{\partial x} \right) + q_n ,$$

and the nonlinear generalized boundary condition by

$$q_n = \pm (c_1 T_1^4 - c_2 T_2^4) = -\lambda \left(\frac{\partial T}{\partial x} \right) .$$

Card 1/3

L 61509-05

ACCESSION NR: AP5017123

The electrical model consists of ohmic resistance cells as shown in Fig. 1 on the Enclosure, where

$$R_x = \frac{\Delta x_i}{\lambda_i \left(x_i \pm \frac{\Delta x_i}{2} \right)} N; \quad R_{\tau} = \frac{2\Delta \tau}{(\gamma)_i (\Delta \tau_{i-1} + \Delta \tau_i) c_i} N;$$

$$R_q = \frac{U_M - U_w}{q} k_T N.$$

The corresponding radiation resistance term is expressed in the form of a nomogram for $c_1 = c_2$. A simple example is selected, and the temperature field is calculated using the above analog method as well as a numerical integration on the digital computer "Strela." The results show less than 2% discrepancy between the two methods. The analog method is then used to determine the temperature field

in a two-layer field of an infinite cylinder. Orig. art. has: 9 formulas, 3 figures, and 2 tables.

ASSOCIATION: none

SUBMITTED: 04/06/64

ENCL: 04

SUB CODE: TD, DP

NO REF SOV: 003

OTHER: 001

Card 2/3

L 61509-45

ACCESSION NR: AP5017123

ENCLOSURE: 01

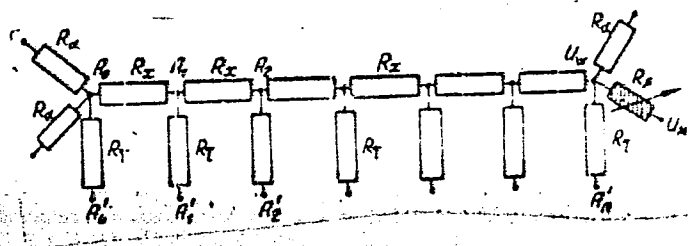


Fig. 1.

Card *dim*
3/3

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
1A Preparing pig skins for the removal of hair. M. I. Levinov and P. I. Levenko. <i>Kharkovsk-Obozrenye</i> from, S. S. R. 15, No. 8, 53(1936).—The wet pig skins contg. 35-37% H₂O are washed with running water at 15-18° for 1.5-2.0 hrs. and left in the drum (with water) for 20-4 hrs. at a liquid factor of 2; this increases the amt. of water in the skins to 55-60%. Then the flesh is removed and the skins are treated in a sulfite or a soda soln. Details of the method are given. A. A. B.																			
ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION																			
SECTION 1										SECTION 2									
SECTION 3										SECTION 4									

29

PROCESSING AND PROPERTIES INDEX

27

The liming of hides. M. R. Litvinov and S. D. Kovtunovich. *Lebkaya Prom.* 8, No. 10, 21(1948).
 A soln. contg. 10-12 g. $\text{Ca(OH)}_2/\text{l.}$ and 1 g. Na_2S l. with a liquid coeff. of 3 at 35° is recommended for prepn. of Russian leather. A contact time of 8 days is employed.
 Marshall Sizing

ADD. 5.1.1 METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED INDEXED

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

C. A.

Features of monochrome tanning. S. D. Kovtunovich,
M. R. Litvinov, and A. A. Umanskii. *Legkaya Prom.* 10,
No. 7, 24-8 (1950).--The advantages of monochrome as
compared to bichrome are reviewed. Marshall Sittig

OVRUTSKIY, M. SH., LITVINOV, M. R., LIORDMOVICH, R. B.

Tanning

Accelerated bating and liming of cowhide Russian leather as it applies to requisites of conveyor line production. Leg. prom. 12 No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. Unclassified.

LITVINOV, M.R., glavnyy inzhener; UMANSKIY, A.A., inzhener.
~~UMANSKIY, A.A., inzhener.~~

Dyeing chrome leather at lower temperature. Leg.prom. 14 no.10:
37 0 '54. (MLRA 7:11)

(Dyes and dyeing--Leather)

LITVINOV, M. R.

Perfection of the Drum Dyeing Method for Chromium Tanned Leather.
Leka Promishlenost (Light Industry), #7-12:23:July-Dec 1955

OVHUTSKIY, M. Sh., kandidat tekhnicheskikh nauk; SIROMO, Sh. L., inzhener;
LITVINOV, M. R., inzhener.

Replacing chrome tanning of Russian leather by a chromium sulfite
cellulose treatment. Leg. prom. 15 no. 4:38-39 Ap '55.
(Tanning) (MLR 8:7)

LITVINOV, M.P., glavnyy inzhener; UMANSKIY, A.A.,

Improving the method of chrome leather drum dyeing. Leg.prom.
15 no.7:50-51 J1'55. (MIRA 8:10)

1. Kiyevskiy kozhkombinat (for Litvinov)
(Dyes and dyeing--Leather)

LITVINOV, M.R., inzhener; SHOR, R.M.

Over-all mechanization of tanning processes in the manufacture
of Russian leather. Leg.prom. 16 no.4:45-48 Ap '56. (MLBA 9:8)

1. Nachal'nik konstruktorskogo otdela.
(Kiev---Tanning) (Leather industry)

LITVINOV, M.R.; DERBAREMIDIKER, M.L.; UMANSKIY, A.A.

Better use of raw calfskins in manufacturing chrome leather.
Leg.prom.16 no.12:44-45 D '56. (MLRA 10:2)
(Leather industry)

LITVINOV, M.R.; UMANSKIY, A.A.; RYBCHINSKIY, O.I.; DERBAREMDIKER, M.L.

Using Mekal for chemical cleaning of unhaired hide faces for chrome
tanning. Leg. prom. 18 no.1:48-49 Ja '58. (MIRA 11:2)
(Tanning)

DERBAREMDIKER, M.L., kand.tekhn.nauk: LITVINOV, M.R., inzh.; UMANSKIY, A.A.,
inzh.

New criterion for the completion of chrome tanning. Leg. prom. 18
no.9:55-56 S '58. (MIRA 11:10)
(Tanning)

LITVINOV, M.R.; FAL'KOVICH, D.R.

Increase tanning properties of liquors produced of defective
raw materials. Leg.prom. 18 no.11:24 N '58, (MIRA 11:12)
(Tanning materials)

LITVINOV, M.R., inzh.; SHOR, R.M., inzh.; GOROKHOVSKIY, Ya.Ye.

Section for the continuous production of patent leather. Kozh.-obuv.
prom. no.11:35-37 H '59. (MIRA 13:3)
(Leather industry)

LITVINOV, M.R., inzh.; UMANSKIY, A.A., inzh.

Revise the state standards for leather raw materials. Kozh.-obuv.
prom. no.9:17-18 S '61. (MIRA 14:11)
(Leather--Standards)

DERBAREMDIKER, M.L.; ZURABYAN, K.M.; LAYEVSKAYA, G.I.; LITVINOV, M.R.;
METELKIN, A.I.; SLUTSKIY, S.B.; SUCHKOV, V.G.

Production of Russian leather and of footwear manufactured with the
hot vulcanization method. Kozh.-obuv.prom.3 no.3:17-20 Mr '61.
(MIRA 14:6)

(Shoe manufacture)
(Leather)

LITVINOV, M.R.; OVRUTSKIY, M.Sh.; DERBAREMDIKER, M.L.; SHOR, R.M.

Rapid soaking and liming in the processing of Russian leather.
Kozh.-obuv.prom. 3 no.7:22-25 J1 '61. (MIRA 14:9)
(Leather)

LITVINOV, M.R.; DERBAREMDIKER, M.L.

Use of synthetic surface-active agents for the intensification
of leather manufacturing processes. Kozh.-obuv.prom. 4 no.4:
24-25 Ap '62. (MIRA 15:5)
(Surface-active agents) (Leather)

LITVINOV, M.R.; SHOR, R.M.; DERBAREMDIKER, M.L.

Increase of the degree of utilization of the industrial floor space based on the improvement of equipment and technology. Kozh.-obuv. prom. 4 no.8:7-11 Ag '62. (MIRA 15:8)

1. Glavnyy inzhener Kiyevskogo kozhevnogo kombinata No.6 (for Litvinov). 2. Nachal'nik konstruktorskogo otdela Kiyevskogo kozhevnogo kombinata No.6 (for Shor). 3. Nachal'nik laboratorii Kiyevskogo kozhevnogo kombinata No.6 (for Derbaremdiker).
(Leather industry) (Industrial management)

LITVINOV, M. R.; UMANSKIY, A. A.

Use of casein coating for refining chrome leather. Kosh.
obuv. prom. 4 no.10:26-28 0 '62. (MIRA 15:10)

(Leather) (Casein)

LITVINOV, M.R.; UMANSKIY, A.A.

Efficient method of manufacturing lining split leather from raw hide split. Kozh.-obuv.prom. 4 no.9:40 S '62. (MIRA 15:9)

1. Glavnyy inzhener Kiyevskogo kozhevennogo kombinata (for Litvinov). 2. Nachal'nik tekhnicheskogo otdela Kiyevskogo kozhevennogo kombinata (for Umanskiy).
(Leather)

DUSHIN, B.M. [Dushyn, B.M.]; LITVINOV, M.R. [Lytvynov, M.R.]; UMANSKIY, O.A.
[Umans'kyi, O.A.]

Refining of chrome leather with grain defects. Leh.prom. no.1:31-32
Ja-Mr '63. (MIRA 16:4)

1. Kiyevskiy kozhevennyy kombinat No.6.

DUSHIN, B.M.; LITVINOV, M.R.; GERSHENGORN, M.S.; DERBAREMDIKER, M.L.

Refining of leather. Kozh.-obuv.prom. 5 no.5:33-34, My '63.
(MIRA 16:5)

(Leather)

DUSHIN, B.M. [Dushyn, B.M.]; LITVINOV, M.R., [Lytvynov, M.R.];
DERBAREMDIKER, M.L., kand. tekhn. nauk; GERSHENGORN, M.S.
[Hershenhorn, M.S.]

Continuous processing of semifinished products in the Kiev
Leather Combine. Leh. prom. no.2:35-37 Ap-Je '63.

(MIRA 16:7)

(Kiev—Leather industry)
(Assembly-line methods)

LITVINOV, M.V.

Solution by the method of nets of a plane problem of the theory of elasticity for an infinite band with a projection. Dop. AN URSR no.1:35-38 '56. (MIRA 9:7)

1. Institut gidrologii ta gidrotekhniki AN URSR. Predstaviv diysniy chlen AN URSR G.M. Savin. (Elasticity)

~~LITVINOV~~, Mikhail Vasil'yevich; VOROTNIKOVA, R.V., red.; BERNGARDT, N.Ye.,
tekhn.red.

[The streets of Voronezh bear their names] Ikh imenami nazvany
ulitsy Voronezha. Voronezh, Voronezhskoe knizhnoe izd-vo, 1960.
49 p. (MIRA 14:4)

(Voronezh--Streets)

LITVINOV, N.

Organisation of the work in mixed brigades working on a twenty-four hour shift in a mine. Biul. nauch. inform.: trud i zar. (MIRA 15:7)
plata 5 no.5:22-25 '62.
(Novovolynsk--Coal mines and mining)

GUREVICH, E.I., inzh.; LITVINOV, M.V., inzh.

Parameters of mechanisms for assembling structural elements
can be improved. Prom. stroi. 41 no.11:30-32 N '63.

(MIRA 17:2)

1. Dnepropetrovskiy otdel Gosudarstvennogo proyektnogo
instituta Ukrproyektstal'konstruktsiya.

LITVINOV, N., mayor, kand.voyennykh nauk; KOLIMOV, A., inzhener-kapitan.

Ascent altitude of a radioactive cloud. Sv. i kosm. 47 no.6:
94-95 Je '64. (MIRA 17:7)

LITVINOV, N., inzhener.

Use of mixed coagulating agents for treating drinking water.
Zhil.-kem.khoz. 4 no.3:8 '54. (MIRA 7:6)

1. Nachal'nik khimiko-bakteriologicheskoy laboratorii Dneprovskoy
vodoprovodnoy stantsii (Kiyev)
(Water--Purification)

LEVINOV, N.

Operation of AKKh filter systems in the Dneprovsk water supply station. Zhil.-kom.khoz.5 no.5:21-22 '55. (MLRA 8:11)

1. Nachal'nik laboratorii Dneprovskoy vodoprovodnoy stantsii (Kiev--Water--Purification) (Filters and filtration)

LITVINOV, N.

Alkalisation of water with a solution of building lime. Zhil.-
kom. khos. 5 no.8:24 '55. (MIRA 8:6)

1. Nachal'nik laboratorii Dneprovskoy vodoprovodnoy stantsii.
(Water--Purification)

LITVINOV, N.

Using sodium silicate for speeding up the process of coagulation. Zhil.-kom.khoz. 6 no.5:29 '56. (MLRA 9:11)

1. Nachal'nik Khimicheskoy laboratorii Dneprovskoy vodoprovodnoy stantsii goroda Kiyeva.
(Water--Purification)

LITVINOV, N., inzhener.

Equipment for controlling water purification. Zhil.-kom. khoz. 7
no.1:23-24 '57. (MLBA 10:4)

1. Nachal'nik laboratorii Dneprovskoy vodoprovodnoy stantsii
goroda Kiyeva.

(Water--Purification)

LEBEDEVA, N., kand. tekhn. nauk; RUDENKO, G.; LITVINOV, N.

Testing two-stage filters at the Dnieper water-supply station.
Zhil-komm. khoz. 9 no.3:16-17 '59. (MIRA 12:5)

1. Tekhnoruk ochistnykh sooruzheniy Dneprovskoy vodoprovodnoy
stantsii, Kiyev (for Rudenko). 2. Nachal'nik laboratorii Dnepro-
vskoy vodoprovodnoy stantsii, Kiyev (for Litvinov).
(Kiev--Filters and filtration)

LITVINOV, N., inzh. (Kiyev)

Automatic dosimeter for coagulating solutions. Zhil.-kom.
khoz. 9 no.11:28-29 '59. (MIBA 13:2)
(Water--Purification)

LITVINOV, N.; RUDENKO, G.

Taste and odor control in drinking water of the Dnieper
water-supply system in Kiev. Zhil.-kom.khoz. 10 no.1:22-23
'60. (MIRA 13:5)

1. Nachal'nik laboratorii Dneprovskoy vodoprovodnoy stantsii
Kiyev (for Litvinov). 2. Tekhnoruk ochistnykh sooruzheniy
Dneprovskoy vodoprovodnoy stantsii, Kiyev (for Rudenko).
(Kiev--Water--Purification)

RUDENKO, G.; LITVINOV, N.

Coagulation of saturated waters and waters with a low sludge content using clarified aluminum sulfate. Zhil.-kom.khoz. 10 no.9:23-24 '60. (MIRA 13:9)

1. Tekhnicheskiiy rukovoditel' ochistnykh sooruzheniy Dneprovskoy vodoprovodnoy stantsii, g. Kiyev (for Rudenko).
(Kiev--Water--Purification)

HUDENKO, G. (g.Kiyev); LITVINOV, N. (g.Kiyev)

Using semicoke for charging large-capacity filters. Zhil.-kom.
khoz. 10 no.11:19-20 '60. (MIRA 13:11)

1. Glavnyy inzhener Dneprovskogo vodoprovoda (for Rudenko)
(Filters and filtration)

LITVINOV, N.A.

"Skin Microflora of a Horse,"

SO: Veterinariya, Vol 24, No 10, pp 25-26, 1977.

LITVINOV, N. A.

36802. Lecheniye Pasterelleza Syl'fidinom. Veterinaya, 1949, No. 12, c. 30

SO: Ietopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

LITVINOV, N.A. (Major, Vet. Service)

"Treatment of Horses Ailing with Pneumonias with Sulfasol,"

SO: Veterinariya, Vol 26, No 2 pp 39-44, 1949.

LITVINOV. N. A., Doc Vet Sci -- "Paraagalactia ^d sheep (Observations and
experimental studies)." Len, 1960. (Min ~~1960~~ of Agr RSFSR. Len Vet Inst).
(KL, 1-61, 203)

-327-

LITVINOV, N.A.

Advance of apple trees into the alpine areas of the central
Tien Shan. Izv. Bot. sada AN Kir. SSR no.1:19-31 '64.

(MIRA 18:6)

LITVINOV, N.A., elektromekhanik elektricheskoy tsentralizatsii

Our difficulties. Avtom., telem. i svyaz' b. no. 7/11/62. (MIRA 16:2)

1. Stantsiya Povorino Yugo-Vostochnoy dorogi.
(Railroads—Signaling—Interlocking systems)(Railroads—Switches)

GAREYEV, E.Z.; LITVINOV, N.A.

Apple hybrids of the Botanical Garden in the Tien Shan. Izv. AN
Kir. SSR. Ser. biol. nauk 5 no.2:49-51 '63. (MIRA 16:9)

LITVINOV, N. D.

Bee Culture - Equipment and Supplies

More about separators. Pchelovodstvo 29 No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

The viscosity and the density of molten yellow phosphorus within the temperature range 45° to 95°. N. D. Divison and I. K. Farmer. *J. Applied Chem. U. S. S. R.* 7-1081-7(1934). Since H₂O is partly sol. in P, but of H₂O in density and d. detns. are not those of pure P, but of H₂O in P. The data, however, probably differ little from those for pure P. The d. of P changes linearly with temp. according to the equation $d = 1.782 - 0.00019 t$. The viscosity of P changes with temp. according to $\eta = 0.03314 - 0.000065 t + 0.0001279 t^2 - 0.000000578 t^3$. The sp. gravity of P changes with temp. according to $Z = 1.902 + 0.08421 t + 0.0007185 t^2 - 0.000003281 t^3$.

A. A. Boettlingk

CA

PROCESSING AND PREPARATION

The viscosity of phosphoric acid. N. D. Litvinov, T. A. Kryukov and B. A. Kurochkina. *J. Applied Chem.* (U. S. S. R.) 7, 1121-4 (1934).--The viscosities of c. p. H_3PO_4 with various contents of P_2O_5 were detd. in an Ostwald viscometer, while those of the tech. product were checked in a modified Engler viscometer, because of the dissolving effect of the tech. H_3PO_4 on the glass. The viscosity decreases with increase in temp. and decrease in concn. The changes in the d. of the solns. with the temp. are of the type of simple linear equations, while the relation of temp. and viscosity has the character of logarithmic curves. The results of measurements (which are only approx. because of difficulties experienced during the procedure) are summarized in tables. A. A. Boetlingk

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

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LIST AND INDEX																									
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<i>ca</i> The determination of the viscosity and density of water solution of urea. N. D. Litvinov and A. I. Mel'nikov. <i>J. Applied Chem. (U. S. S. R.)</i> 9, 583-8 (in English 588) (1936). - The viscosity and ρ are reported at concns. of 18, 30, 45 and 70% at 15°, 30°, 45°, 60°, 75° and 90°. Empirical equations are derived which give the ρ with an accuracy of 0.5% and the viscosity of 3-5%. When the concn. is const. the fluidity of the solns. is a linear function of the temp.													<i>2</i>												
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1a 2 A formula for the molecular weight of melted yellow phosphorous. N. D. Litvinov. J. Applied Chem. (U. S. S. R.) 9, 188-90(1936). The formula of liquid yellow P as calcd. by the equation of Berthelot (Compt. rend. 128, 608(1899)) is P₄. H. M. Leicester																																																																													
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2A 21 Labor safety in the extraction of cyanogen from coke-oven gas. <i>N. B. Litvinov. Izv. Vsesoyuz. Nauch.-Issledovatel. Inst. Otkrytye Prud. g. Kharkov B, 38-40 (1939).</i>— Suggestions are given for improving labor safety in the extrn. of cyanogen from coke-oven gases. B. Z. Kamich																																																																													
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PROCESS AND PROPERTIES INDEX																			
<i>ca</i> Pressure of the saturated vapor of two volatile liquids mixed in arbitrary proportions. N. D. Litvinov. <i>J. Phys. Chem. (U. S. S. R.)</i> 13, 119-23 (1939).—Using the exptl. data of Zawidzki (<i>Z. physik. Chem.</i> 35, 120 (1900)), L. shows that the consts. of the integrated Duhem-Margules equation can be more simply obtained than as suggested by Margules and Zawidzki. The agreement between the calcd. and the found vapor pressures of arbitrary mixts. of the systems $C_2H_5-C_2H_5Cl$, $CH_3COO-C_2H_5$, $CS_2-CH_3(OCH_3)_2$, $CS_2-CH_3COCH_3$, and $CH_2Cl-CH_2COCH_3$ is very good. F. H. Rathmann																			
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Apparatus for measuring by the static method the pressure of saturated vapor of liquids and liquid mixtures. N. D. Litvinov. <i>Zashchita</i> Lab. 9, 583-7 (1940).—A procedure and app. are described for measuring the pressure of satd. vapor of liquids by the static method. Samples can be 0.1-0.3 ml. Data on the pressures of water, acetone, CHCl_3, benzene and $\text{CH}_2(\text{OCH}_3)_2$ are tabulated. B. Z. Kainich																			
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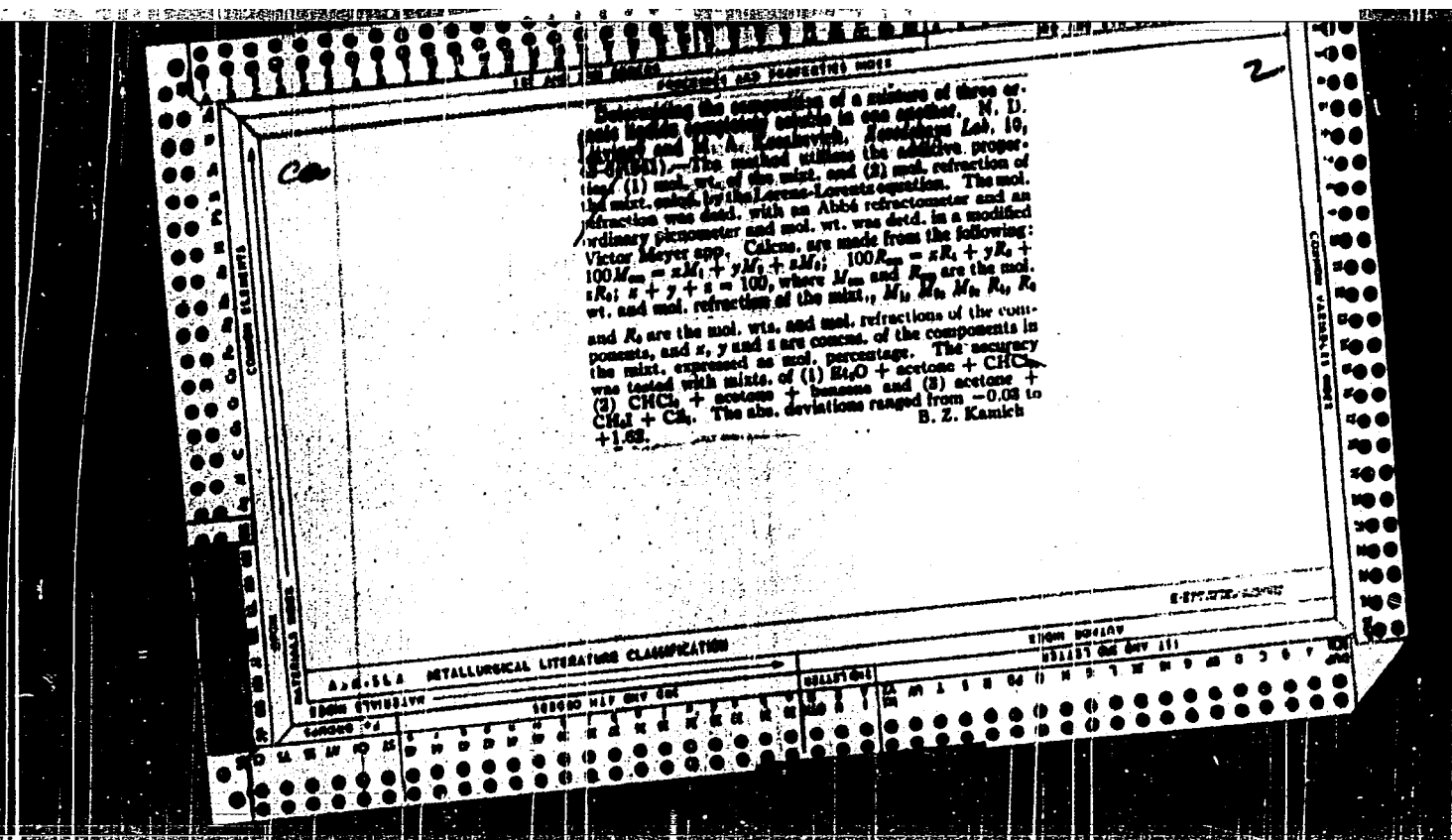
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PROCESSING AND PROPERTIES INDEX																			
Ca										Pressure of saturated vapors of two volatile liquids mixed in arbitrary proportions. II. Comparison of experimental and calculated values. N. D. Litvinov. <i>J. Phys. Chem.</i> (U. S. S. R.) 14, 563-70(1940); <i>Ch. C. A.</i> 34, 2994.—Exptl. values are compared for the total and partial pressures of the components in binary solns. for the systems: $C_6H_6Cl_2 + C_6H_6$; $CH_3COOC_2H_5 + C_2H_5$; $CH_3COCH_3 + H_2O$; $CS_2 + CH_3(OCH_3)_2$; $CHCl_3 + CH_3COCH_3$; at 35 and 50°. The values agree well with those calcd. by means of the equations $a_1/3 = -6.3794 \log [(p_v - P_{v1})/(p_v - P_{v2})] (P_1/P_2)$ and $a_2/2 = 2.5518 \log [(p_v - P_{v1})/P_1] - x(a_1/2)$, where $x = 0.96$, $y = 0.04$. i. e., they behave as ideal solns. For the system $C_6H_6 + CH_3COCH_3$ better agreement is obtained using the coeffs. -4.89531 and 2.34976 and the values $x = 0.96$, $y = 0.01$. A nomogram is described by means of which partial and total pressures of mixts. can be rapidly detd. with an error not exceeding 1.5%. F. H. Rathmann									
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PROCESSING AND SUBSEQUENT WORK									
G 2 Pressure of saturated vapor of liquids and binary liquid mixtures. III. N. D. Levinov. J. Phys. Chem. (U. S. S. R.) 44, 783-8 (1940); <i>ibid.</i> 44, 806, 2046. — The new method of calcg. the constants in Margules' equation is applied to the mixts. $\text{CHCl}_3 + \text{CH}_2\text{Cl}_2$, $\text{CH}_2\text{Cl}_2 + \text{C}_6\text{H}_6$, $\text{CH}_2\text{Cl}_2 + \text{C}_6\text{H}_5\text{OH}$, $\text{CH}_2\text{Cl}_2 + \text{C}_6\text{H}_5\text{NH}_2$, $\text{CH}_2\text{Cl}_2 + \text{H}_2\text{O}$, $\text{CH}_2\text{Cl}_2 + \text{C}_6\text{H}_5\text{Cl}$, and $\text{C}_6\text{H}_5\text{Cl} + \text{C}_6\text{H}_6$. The calcn. is checked and confirmed by a few expts. H. C. P. A.									
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LITINOV, N. D.

"The Problem of the Pressure of the Saturated Vapor of Two Volatile Liquids, Mixed in any Proportions."

Zhur. Fiz. Khim., Vol. 14, No. 4, 1940.



5(2)

SOV/156-59-1-3/54

AUTHOR:

Litvinov, N. D.

TITLE:

On the Applicability Limits of the Margules Equations for the Calculation of the Equilibrium Liquid-Vapor in Binary Mixtures (O granitsakh primenimosti uravneniy Margulesa dlya rascheta ravnovesiya zhidkost' - par v dvoynykh smesyakh)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 1, pp 13 - 15 (USSR)

ABSTRACT:

The Margules equations for partial vapor pressures of the components of liquid mixtures are a partial integral of the Duhem - Margules :

$$\frac{d \ln p_1}{d \ln x_1} - \frac{d \ln p_2}{d \ln (1 - x_1)} = 0, \text{ where } x_1 \text{ and } (1 - x_1) \text{ denote the}$$

molar yield of the components, p_1 , p_2 their partial vapor pressures in the liquid phase. The applicability of the Margules equation as a partial integral is only a restricted one. Its upper limit has not yet been investigated. Attempts are made to find a quantitative characterization of the deviation from the ideal mixture to obtain a criterion for

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On the Applicability Limits of the Margules Equations for the Calculation of the Equilibrium Liquid-Vapor in Binary Mixtures

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the applicability of Margules equations. A mixture of two liquids may have a vapor pressure curve with an azeotrope in the maximum: $\pi = f(x_1)$ (Diagram). The curve has then the tangents $(\frac{\partial \pi}{\partial x_1})_0$ and $(\frac{\partial \pi}{\partial x_1})_1$ at the two end points

($x_1 = 0$ and $x_1 = 1$). The distances

$$\overline{P_1 a} = (\frac{\partial \pi}{\partial x_1})_0 + P_2 - P_1 \text{ and } \overline{P_2 b} = -(\frac{\partial \pi}{\partial x_1})_1 + P_1 - P_2$$

(P_1, P_2 = partial pressures) are formed by the intersection points with the ordinates $x_1 = 0$ and $x_1 = 1$. The absolute quantity of these distances is not representative of the deviation from the ideal state because they depend on the quantities P_1 and P_2 . These distance values are divided by P_1 and P_2 , respectively, to find the criteria of non-ideality

Card 2/3

On the Applicability Limits of the Margules Equations SCV/156-59-1-3/54
for the Calculation of the Equilibrium Liquid-Vapor in Binary Mixtures

$$\psi_1 = \frac{P_1^a}{P_1}, \psi_2 = \frac{P_2^b}{P_2} \quad (\psi_1, \psi_2 = \text{criteria of}$$

nonideality). A table shows the values ψ_1 and ψ_2 for 17 mixtures of liquids (mixtures of organic solvents mainly). The Margules equations can be applied to 13 of them (ψ_1, ψ_2 have low values). With triethylamine + water, however, the values rise in a way that the Margules equations would bring about considerable errors. Methyl alcohol + hexane and isobutyl alcohol + water unmix, the ψ values are also considerable and the Margules equations therefore not applicable either. There are 1 figure and 1 table.

ASSOCIATION: Voyennaya Akademiya khimicheskoy zashchity (Military Academy for Chemical Defense)

SUBMITTED: August 13, 1958

Card 3/3

LITVINOV, N. D.

N. D. Litvinov and L. Ia. Kondrashova. Experiment on an isothermal equilibrium vapor liquid for a mixture of three volatile components. p. 153

Oct. 26, 1949

SO: Journal of Physical Chemistry, Vol. 25, No. 2 (Feb. 1951)